IN THE CLAIMS:

A complete listing of the claims is set forth below. Please amend the claims as

follows:

1. (Currently Amended) A distributed software system, comprising:

at least one server component supporting one or more server objects having

associated data, the server component being within a first container and

at least one client component that is within a second container, distributed from,

the server component and operable to:

access data associated with one or more of the server objects such that whether

the server component is local to or remote from the client component is substantially

transparent to the client component;

if the first container is local to the second container, in order to access server

object data, execute data access operations optimized for local communications; and

if the first container is remote from the second container, in order to access

server object data, access at least one proxy component that is:

within the second container;

supporting one or more proxy objects each providing a local version of a

corresponding server object: and

operable to:

provide the client component with access to data associated with a proxy object

in response to the client component requesting data associated with the corresponding

server object; and

execute data access operations optimized for remote communications to access

data associated with the corresponding server object; and

substantially immediately reflect all changes to data associated with the proxy

objects back to data associated with the corresponding server objects.

2. (Previously Presented) The system of Claim 1, wherein the client

component is allowed to use the same operations to access server object data whether

the client component is local to or remote from the server component.

3. (Original) The system of Claim 1, wherein the client component is

operable to access server object data without determining whether the client component

is local to or remote from the server component.

4. (Original) The system of Claim 1, wherein the client component is coded

as if the client component will always be remote from any associated server component

and all communications to such a server component will be remote communications.

5. (Original) The system of claim 1, wherein the client component has been

developed using templatized code appropriate for multiple client components of the

server component, such that local and remote client-server interface transparency is

preserved across all such client components and repetitive code generation has been

minimized in developing such client components.

6. (Cancelled)

7. (Cancelled)

8. (Previously Presented) The system of Claim 1, wherein the proxy

component is operable to perform management tasks relating to the proxy objects.

- 9. **(Previously Presented)** The system of Claim 1, wherein the proxy component is a generic component customized by a developer of the server component.
- 10. (Previously Presented) The system of Claim 1, wherein the proxy component and the server component are operable to cooperate to reconcile proxy object data with server object data, using one or more operations, in a manner consistent with local and remote client-server interface transparency.

11. (Currently Amended) A distributed software system, comprising:

at least one server component supporting one or more server objects having

associated data, the server component being within a first container; and

at least one client component that is within a second container, distributed from

the server component and operable to:

access data associated with one or more of the server objects according to a

scheme allowing the client component to use the same operations to access server

object data whether the client component is local to or remote from the server

component;

if the first container is local to the second container, in order to access server

object data, execute data access operations optimized for local communications; and

if the first container is remote from the second container, in order to access

server object data, access at least one proxy component that is:

within the second container;

supporting one or more proxy objects each providing a local version of a

corresponding server object; and

operable to:

provide the client component with access to data associated with a proxy object

in response to the client component requesting data associated with the corresponding

server object; and

execute data access operations optimized for remote communications to access

data associated with the corresponding server object; and

substantially immediately reflect all changes to data associated with the proxy

objects back to data associated with the corresponding server objects.

12. (Currently Amended) A distributed software system, comprising:

at least one server component supporting one or more server objects having

associated data, the server component being within a first container;

at least one client component that is distributed from the server component, the

client component being within a second container and operable to:

access data associated with one or more of the server objects, without

determining whether the client component is local to or remote from the server such that

whether the server component is local to or remote from the client component is

substantially transparent to the client component and such that the client component is

allowed to use the same operations to access server object data whether the client

component is local to or remote from the server component;

if the first container is local to the second container, in order to access server

object data, execute data access operations optimized for local communications; and

if the first container is remote from the second container, in order to access

server object data, access at least one proxy component supporting one or more proxy

objects each providing a local version of a corresponding server object, the proxy

component being within the second container and operable to:

provide the client component with access to data associated with a proxy object

in response to the client component requesting data associated with the corresponding

server object; and

execute data access operations optimized for remote communications to access

data associated with the corresponding server object; and

substantially immediately reflect all changes to data associated with the proxy

objects back to data associated with the corresponding server objects.

13. (Currently Amended) A client component that is distributed from a server

component supporting one or more server objects having associated data and operable

to:

access data associated with one or more of the server objects such that whether

the server component is local to or remote from the client component is substantially

transparent to the client component;

if the first container is local to the second container, in order to access server

object data, execute data access operations optimized for local communications; and

if the first container is remote from the second container, in order to access

server object data, access at least one proxy component that is:

within the second container;

supporting one or more proxy objects each providing a local version of a

corresponding server object; and

operable to:

provide the client component with access to data associated with a proxy object

in response to the client component requesting data associated with the corresponding

server object; and

execute data access operations optimized for remote communications to access

data associated with the corresponding server object; and

substantially immediately reflect all changes to data associated with the proxy

objects back to data associated with the corresponding server objects.

14. (Currently Amended) A proxy component that:

is within a first container that also contains a client component and is remote

from a second container containing a server component which supports one or more

server objects having associated data, the client component being distributed from the

server component and operable to execute data access operations optimized for local

communications to access data associated with a corresponding server object;

supports one or more proxy objects each providing a local version of a

corresponding server object;

is operable to provide the client component with access to data associated with a

proxy object in response to the client component requesting data associated with the

corresponding server object, such that whether the server component is local to or

remote from the client component is substantially transparent to the client component;

and

is operable to execute data access operations optimized for remote

communications to access data associated with the corresponding server object;

<u>and</u>

substantially immediately reflect all changes to data associated with the proxy

objects back to data associated with the corresponding server objects.

software system, comprising:

receiving a request from a client component for data that is associated with a

server object of a server component;

if the client component is local to the server component, allowing the client

component to directly access the requested server object data, the client component

operable to execute data access operations optimized for local communications to

access server object data; and

if the client component is remote from the server component, using a proxy

component to provide the client component with local access to proxy object data

corresponding to the requested server object data, the proxy component supporting one

or more proxy objects each being a local copy of a corresponding server object, the

proxy component operable to execute data access operations optimized for remote

communications to access data associated with the corresponding server object; and

substantially immediately reflect all changes to data associated with the proxy

objects back to data associated with the corresponding server objects;

wherein whether the server component is local to or remote from the client

component is substantially transparent to the client component.

16. (Original) The method of Claim 15, further comprising allowing the client

component to use the same operations to access server object data whether the client

component is local to or remote from the server component.

17. (Original) The method of Claim 15, further comprising allowing the client

component to access server object data without determining whether the client

component is local to or remote from the server component.

18. (Original) The method of Claim 15, wherein the client component is coded

as if the client component will always be remote from any associated server component

and all communications to such a server component will be remote communications.

19. (Original) The method of Claim 15, wherein the client component has

been developed using templatized code appropriate for multiple client components of

the server component, such that local and remote client-server interface transparency is

preserved across all such client components and repetitive code generation has been

minimized in developing such client components.

20. (Cancelled)

21. (Cancelled)

22. (Previously Presented) The method of Claim 15, wherein the proxy

component performs management tasks relating to the proxy objects.

23. (Previously Presented) The method of Claim 15, wherein the proxy

component is a generic component customized by a developer of the server

component.

24. (Previously Presented) The method of Claim 15, wherein the proxy

component and the server component cooperate to reconcile proxy object data with

server object data, using one or more operations, in a manner consistent with local and

remote client-server interface transparency.

software system, comprising:

receiving a request from a client component for data that is associated with a

server object of a server component;

if the client component is local to the server component, allowing the client

component to directly access the requested server object data, the client component

operable to execute data access operations optimized for local communications to

access server object; and

if the client component is remote from the server component, using a proxy

component to provide the client component with local access to proxy object data

corresponding to the requested server object data, the proxy component supporting one

or more proxy objects each being a local copy of a corresponding server object, the

proxy component operable to execute data access operations optimized for remote

communications to access data associated with the corresponding server object; and

substantially immediately reflect all changes to data associated with the proxy

objects back to data associated with the corresponding server objects;

the client component using the same operations to access server object data

whether the client component is local to or remote from the server component.

software system, comprising:

receiving a request from a client component for data that is associated with a

server object of a server component distributed from the client component, the server

component being within a first container and the client component being within a second

container, the client component operable to execute data access operations optimized

for local communications to access server object data;

if the client component is local to the server component, allowing the client

component to directly access the requested server object data; and

if the client computer is remote from the server component, using a proxy

component within the second container to provide the client component with local

access to proxy object data corresponding to the requested server object data, the

proxy component supporting one or more proxy objects each being a local version of a

corresponding server object, the proxy component operable to execute data access

operations optimized for remote communications to access data associated with the

corresponding server object; and

substantially immediately reflect all changes to data associated with the proxy

objects back to data associated with the corresponding server objects;

wherein whether the server component is local to or remote from the client

component is substantially transparent to the client component, the client component

being able to use the same data access operations whether the client component is

local to or remote from the server component.

27. (Currently Amended) A method of accessing data in a distributed

software system using a client component, comprising:

at the client component, accessing data associated with one or more server

objects of a server component that is distributed from the client component, each server

object having associated data, the client component accessing the server object data

such that whether the server component is local to or remote from the client component

is substantially transparent to the client component;

if the client component is local to the server component, allowing the client

component to directly access the requested server object data, the client component

operable to execute data access operations optimized for local communications to

access data associated with one or more server objects; and

if the client component is remote from the server component, using a proxy

component to provide the client component with local access to proxy object data

corresponding to the requested server object data, the proxy component supporting one

or more proxy objects each being a local copy of a corresponding server object, the

proxy component operable to execute data access operations optimized for remote

communications to access the data associated with the corresponding server object.

object; and

substantially immediately reflect all changes to data associated with the proxy

objects back to data associated with the corresponding server objects.

software system using a proxy component, the proxy component operable to execute

data access operations optimized for local communications, the proxy component being

within a first container that also contains a client component and is remote from a

second container containing a server component supporting one or more server objects

having associated data, the client component being distributed from the server

component and operable to execute data access operations optimized for local

communications the method comprising:

supporting one or more proxy objects each providing a local version of a

corresponding server object; and

providing the client component with access to data associated with a proxy object

in response to the client component requesting data associated with the corresponding

server object, such that whether the server component is local to or remote from the

client component is substantially transparent to the client component and such that data

access operations optimized for remote communications are performed when the client

component is remote from the server component and data access operations optimized

for local communications are performed when the client component is local to the server

component; and

substantially immediately reflect all changes to data associated with the proxy

objects back to data associated with the corresponding server objects.